ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/10 Date Received: 09/28/10

Project: % of Acid, PO M06144, F&BI 009300

Date Analyzed: 09/29/10

RESULTS FROM THE ANALYSIS OF AQUEOUS SAMPLES FOR SPECIFIC GRAVITY @ 15.56 $^{\circ}\mathrm{C}$

Sample ID Laboratory ID	<u>S</u>	pecific Gravity
M06144A Small Tank		1.22
M06144B Large Tank		1.25

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RESULTS FROM THE ANALYSIS OF AQUEOUS SAMPLES FOR PERCENT ACID

Sample ID	Percent Acid
Laboratory ID	
M06144A Small Tank	8.89
M06144B Large Tank	9.27

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Date of Report: 09/30/10 Date Received: 09/28/10

Project: % of Acid, PO M06144, F&BI 009300

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AQUEOUS SAMPLES FOR SPECIFIC GRAVITY

@ 15.56 °C

Laboratory Code: 009300-01 (Duplicate)

	Sample	Duplicate	Relative Percent	Acceptance
Analyte	Result	Result	Difference	Criteria
Specific Gravity	1.22	1.22	0	0-2

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QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF AQUEOUS SAMPLES FOR PERCENT ACID

Laboratory Code: 009300-01 (Duplicate)

			Relative	_
	Sample	Duplicate	Percent	Acceptance
Analyte	Result	Result	Difference	Criteria
Percent Acid	8.89	8.89	0	0-20

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Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probability.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb Analyte present in the blank and the sample.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht Analysis performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- ${f J}$ The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Send Report <u>To Sex &</u> Company A & & & & & & & & & & & & & & & & & &	Come	14/ake	10000	PROJECT NAME/NO. PO #) #		TUKNAROUND TIME Standard (2 Weeks)						
Address 628 S.	Ha la	SU		Gof Acid MO6144						Rush charges authorized by:						
City, State, ZIPPhone # 206-57/-603	re i	A 98		REMARKS		109314								□ Re	spose a	PLE DISPOSAL after 30 days amples with instructions
	1					1	13			ANA	LYS	ES R	EQUE	STED		
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	ТРН-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	90 f 18:15	SG			Notes
N 06144A	01	9/28/10	3.00	HN03	/							X.	X			
Smell touls												8				
				,					-	_	+		-	+		
m06144B	02	9/28/10	3:00	Hm03	7				1	1		X	1		1	
CARGETENK	======	W.											1			

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fox (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
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Samples received at 24 °C

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 30, 2010

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 28, 2010 from the % of Acid, PO M06144, F&BI 009300 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0930R.DOC